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APPLICATION NO.	· FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,949	11/24, 2003	Donna K. Hodges	BS030347	5272
38516 7590 02/01/2008 SCOTT P. ZIMMERMAN PLLC			EXAMINER	
PO BOX 3822		•	SIKRI, ANISH	
CARY, NC 27	519	,	ART UNIT	PAPER NUMBER
			2143	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•	Application No.	Applicant(s)	•
° Office Addison Suppose	10/720,949	HODGES ET AL.	
Office Action Summary	Examiner	Art Unit	
	Anish Sikri	2143	_
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet w	vith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a d will apply and will expire SIX (6) MO tte, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 16 in 2a) This action is FINAL . 2b) This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal mat		
Disposition of Claims			٠
4) ⊠ Claim(s) 1-20 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir 10) The drawing(s) filed on 24 November 2003 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examir	/are: a) accepted or b) [e drawing(s) be held in abeya ection is required if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in a fority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Stage	
		21 - 7.	
		Than ?	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/16/2007	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application	

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DETAILED ACTION

Information Disclosure Statement

The information disclosure statement submitted on 11/16/2007 been considered by the Examiner and made of record in the application file.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 11/09/2007 has been entered.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims **1-8** are rejected under 35 U.S.C 102(e) as being unpatentable over Logan et al (US Pub 2003/0093790).

Consider Claim 1, Logan et al discloses a method, comprising: receiving a first data stream at a computer, the first data stream comprising packets of data packetized according to a packet protocol (Logan et al, [0015]-[0016], [0054]); recursively segmenting the first data stream into segments (Logan et al, [0067]-[0070], [0080]-

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[0086]), such that a characteristic of a preceding segment determines how a current segment is segmented (Logan et al, [0067]-[0070], [0080]-[0086]); recognizing a repetitive segment and inserting a data compression result of a preceding segment to reduce processing of redundant segments (Logan et al, [0058]); dispersing at least one of the segments via a network for a subsequent processing service; (Logan et al, [0065], [0096]) receiving a result of the processing service (Logan et al, [0065], [0096]-[0101]); aggregating the result of the processing service and an unprocessed segment into a second data stream; and communicating the second data stream via the network (Logan et al, [0065], [0096]-[0101]).

Consider Claim 2, Logan et al discloses the method according to claim 1, wherein recursively segmenting the first data stream comprises observing a sequence of packets having a similar structure to a previous sequence of packets and segmenting the sequence of packets to have similar content to the previous sequence of packets (Logan et al, [0067]-[0070], [0080]-[0086]).

Consider Claim 3, Logan et al discloses the method according to claim 1, wherein recursively segmenting the first data stream comprises using a chronological characteristic of the preceding segment to describe the current segment (Logan et al, [0067]-[0070], [0080]-[0086]).

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Consider Claim 4, Logan et al discloses the method according to claim 1, further comprising replacing a complex segment with a common descriptor to produce an abbreviated annotation (Logan et al, [0080]-[0086]).

Consider Claim 5, Logan et al discloses the method according to claim 1, further comprising accruing historical routing information for a segment, the historical routing information describing at least one destination of the segment as the segment travels via the network (Logan et al, [0092]-[0093], [0129], [0294]).

Consider Claim 6, Logan et al discloses the method according to claim 5, further comprising assembling the second data stream using the historical routing information for the segment (Logan et al, [0294]-[0297]).

Consider Claim 7, Logan et al discloses the method according to claim 1, further comprising accruing historical processing information for a segment, the historical processing information describing at least one process performed on the segment (Logan et al, [0294]-[0297]).

Consider Claim 8, Logan et al discloses the method according to claim 7, further comprising assembling the second data stream using the historical processing information for the segment (Logan et al, [0294]-[0297]).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 . USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims **9-20** are rejected under 35 U.S.C. 103(a) as being unpatentable over Logan et al (US Pub 2003/0093790), in view of Daniels (US Pat 6,285,871).

Consider Claim 9, Logan et al discloses a method of providing communications services, comprising: receiving a request for communications service (Logan et al, [0015]-[0016], [0054], the request for communications service originating from a user's client device (Logan et al, [0299]-[0310], [0426]), the request for communications service communicating via a communications network to a service provider (Logan et al, [0240], [0422]-[0423], [0461]).

the data received as packets of data packetized according to a packet protocol (Logan et al, [0015]-[0016], [0054]); recursively segmenting the packets of data into segments according to a segmentation profile stored in memory (Logan et al, [0117]-[0118], [0258]), the segmentation profile storing rules that define actions when a similar characteristic between segments is encountered (Logan et al, [0240], [0422]-[0423], [0461]), such that a characteristic of a preceding segment determines how a current segment is segmented (Logan et al, [0067]-[0070], [0080]-[0086]); recognizing a repetitive segment and inserting a data compression result of a preceding segment to reduce processing of redundant segments (Logan et al, [0058]); when a common processing service is required (Logan et al, [0065], [0096]), then grouping together individual packets of data as a new segment (Logan et al, [0065], [0096]), each of the individual packets in the new segment requiring the common

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processing service dispersing at least one of the segments via a network for a subsequent processing service (Logan et al, [0065], [0096]-[0101]); dispersing the new segment via the network to receive the common processing service (Logan et al, [0065], [0096]-[0101]); receiving results of the subsequent processing service (Logan et al, [0065], [0096]-[0101]); receiving a result of the common processing service (Logan et al, [0065], [0096]-[0101]); assembling a data stream, the comprising i) the results of the subsequent processing service (Logan et al, [0065], [0096]-[0101]) and ii) an unprocessed recursively segmented segment (Logan et al, [0065], [0096]-[0101]) and iii) the results of the common processing service (Logan et al, [0065], [0096]-[0101]); and communicating the assembled data stream via the network to fulfill the requested communication service (Logan et al, [0065], [0096]-[0101]).

But Logan et al fails to disclose querying a payment history database for historical payment information relating to the user's history of payments to creditors; querying a usage history database for historical usage information relating to the user's past usage of communications services; querying a credit datable, for credit information relating to a line of credit with a credit card issuer; based on the historical payment information, the historical usage information, and the credit information, determining that the user can be trusted to pay for the requested communications service, even though the total bill is undetermined receiving data at a computer.

Nonetheless, Daniels discloses the querying a payment history database for historical payment information relating to the user's history of payments to creditors (Daniels, Col 4 Lines 37-67, Col 5 Lines 1-6); querying a usage history database for

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historical usage information relating to the user's past usage of communications services (Daniels, Col 4 Lines 37-67, Col 5 Lines 1-6); querying a credit datable, for credit information relating to a line of credit with a credit card issuer (Daniels, Col 4 Lines 37-67, Col 5 Lines 1-6); based on the historical payment information, the historical usage information, and the credit information (Daniels, Col 4 Lines 37-67, Col 5 Lines 1-6), determining that the user can be trusted to pay for the requested communications service (Daniels, Col 6 Lines 48-59), even though the total bill is undetermined receiving data at a computer (Daniels, Col 4 Lines 37-67, Col 5 Lines 1-6).

However, Daniels discloses that still subscribers may be frequent roamers with established credit history and thus can be allowed to roam everywhere (full network access), without the need for additional authentication. Whereas less frequent users of the network (restricted network access).

Therefore it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify the invention of Logan et al, to include the feature of Daniel's in order to reduce the credit risk to providers.

Consider Claim 10, Logan et al, in view of Daniels discloses the method according to claim 9, further comprising communicating the assembled data stream to a client communication device (Logan et al, [0294]-[0297]).

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Consider Claim 11, Logan et al, in view of Daniels discloses the method according to claim 9, further comprising receiving a request for the assembled data stream (Logan et al, [0294]-[0297]).

Consider Claim 12, Logan et al, in view of Daniels discloses the method according to claim 9, wherein recursively segmenting the first data stream comprises using a chronological characteristic of one segment to describe another segment (Logan et al, [0067]-[0070], [0080]-[0086]).

Consider Claim 13, Logan et al, in view of Daniels discloses the method according to claim 9, wherein recursively segmenting the first data stream comprises recognizing a repetitive segment and inserting a data compression result of a preceding segment to reduce processing of redundant segments (Logan et al, [0058]).

Consider Claim 14, Logan et al, in view of Daniels discloses the method according to claim 9, wherein recursively segmenting the first data stream comprises observing a sequence of packets having a similar structure to a previous sequence of packets and segmenting the sequence of packets to have similar content to the previous sequence of packets (Logan et al, [0067]-[0070], [0080]-[0086])...

Consider Claim 15, Logan et al, in view of Daniels, discloses the method according to claim 9, further comprising accruing historical routing information for a

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segment, the historical routing information describing at least one destination of the segment as the segment travels via the network (Logan et al, [0092]-[0093], [0129], [0294]).

Consider Claim 16, Logan et al, in view of Daniels, discloses the method according to claim 15, further comprising assembling the second data stream using the historical routing information for the segment (Logan et al, [0294]-[0297]).

Consider Claim 17, Logan et al, in view of Daniels, the discloses the method according to claim 9, further comprising accruing historical processing information for a segment, the historical processing information describing at least one process performed on the segment (Logan et al, [0294]-[0297])

Consider Claim 18, Logan et al, in view of Daniels, the method according to claim 17. further comprising assembling the second data stream using the historical processing information for the segment (Logan et al, [0294]-[0297])

Claims 19, and 20 have similar limitations as to claim 9, therefore they both are rejected under the same rational as to claim 9.

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Response to Arguments

Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anish Sikri whose telephone number is 571-270-1783.

The examiner can normally be reached on 8am - 5pm Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anish Sikri a.s.

January 30, 2008

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